

## ABSTRACT

A communications services network platform has a multi-layered software architecture residing on a host computer. The network platform connects to a communications network and includes a call processing stack, a link layer, and a service support subsystem. The call processing stack implements call processing by processing events associated with a communication path through the communications network and has an application layer, representing each active call being processed by the call processing stack, and a resource layer, including software abstractions of physical resources located outside the host computer. The link layer manages a communications link between physically connected physical resources and the call processing stack. The service support subsystem executes services requested by the call processing stack. The platform manages and controls communications events associated with the communication path to complete a request for services between nodes on the communication network.